Mid Term Test for Computer Networks (CSN 210)

Total points 19/25



Semester & Branch: 4th semester B.Tech. (CSE) Sem 20212

Max. Marks: 25

Time Allowed: 25 minutes

NOTE: Attempt all Questions. Each question carries 1 mark.

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In TCP, for each retransmission after timeout (except the first retransmission), the TimeoutInterval is derived rom the most recent values of EstimatedRTT and DevRTT.

X True

False

✓ 11.		1/1
Read the followi	ing status codes for the FTP response message.	
i) 331	Username OK, password required	
ii) 125	Error writing file	
iii) 425	Can't open data connection	
iv) 452	Data connection already open; transfer starting	
Which of the fol	llowing options are correct?	
i) and iii)		✓
ii) and iii)		
i) and iv)		
ii) and iv)		
√ 9.		1/1
_	connections in its default mode, HTTP clients and serv	vers can be
configured to use	connections instead.	
persistent, nor	n-persistent	✓
non-persistent	t, persistent	
Only persisten	nt are allowed	
Only non-persi	istent are allowed	

√ 6.	1/1
Consider a packet of length L which begins at end system A and travels over three links are connected by two packet switches. Let define the length, propagation speed, and the transmission rate of link i, for $i = 1, 2$ packet switch delays each packet by dproc. Assuming no queuing delays, in terms of $(i = 1,2,3)$, and L, what is the total end-to-end delay for the packet? Suppose now the packet, the propagation speed on all three links is $2.5 \cdot 10^8$ m/s, the transmission all three links are 2 Mbps, the packet switch processing delay is 3 msec, the length of link is 5,000 km, the length of the second link is 4,000 km, and the length of the last 1,000 km. For these values, what is the end-to-end delay?	i, si, and 2, 3. The di, si, Ri, packet is a rates of the first
O 61 msec	
● 64 msec	✓
O 67 msec	
58 msec	
X 21.	0/1
In the state, the TCP server is waiting for the application to close.	
CLOSED	
ESTABLISHED	
CLOSE_WAIT	
● LAST-ACK	×

✓ 20.	1/1
In TCP, an ACK number of 1000 always means that	
999 bytes have been successfully received	
1000 bytes have bee nsuccessfully received	
1001 bytes have been successfully received	
None of the above	✓
✓ 16.	1/1
What are the five layers in the Internet protocol stack in top down order?	
Application layer, session layer, network layer, link layer, and physical layer	
Application layer, presentation layer, network layer, link layer, and physical layer.	
Application layer, transport layer, network layer, link layer, and physical layer.	✓
presentation layer, transport layer, network layer, link layer, and physical layer.	

✓ 18.	1/1
Which of the following services use TCP?	
A) SMTP	
В) НТТР	
C) FTP	
D) All of the above	~
E) None of the above	
F) A & B	
(G) A & C	

/ 14. 1/1

Match the correct option:

 $Table 1.\ Popular\ Internet\ applications\ and\ their\ underlying\ transport\ protocols.$

Application	Application-Layer Protocol	Underlying Transport Protocol
a. File Transfer	1. SNMP	i. TCP
b. Network Management	2. FTP	ii. Typically UDP

\bigcirc	(a-1-i),	(b-2-ii)
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(a-2-i), (b-1-ii)

(a-2-ii), (b-1-1)

(a-1-ii), (b-2-i)

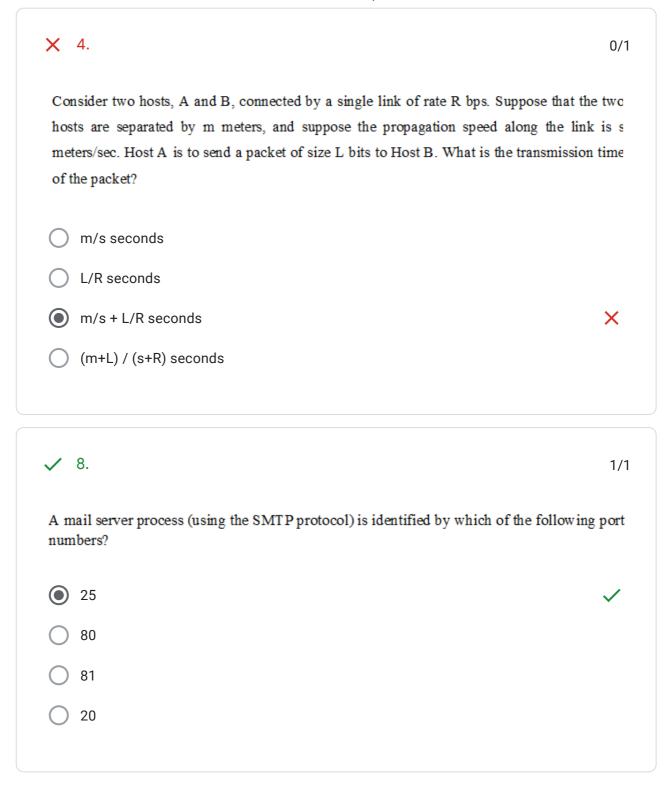
✓ 24.	1/1
DNS resource record is a four tuple that contains the follow (Name, Value, Address, TTL)	ing fields:
True	
False	✓
✓ 12.	1/1
The POP3 protocol does not provide any means for a user to cr messages to folders. (True/False)	reate remote folders and assign
True	✓
○ False	
× 2.	0/1
X 2. Suppose there is exactly one packet switch between a sending transmission rates between the sending host and the switch ar receiving host are R1 and R2, respectively. Assuming that the packet switching, what is the total end-to-end delay to send queuing, propagation delay, and processing delay.)	host and a receiving host. The nd between the switch and the switch uses store-and-forward
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Suppose there is exactly one packet switch between a sending transmission rates between the sending host and the switch ar receiving host are R1 and R2, respectively. Assuming that the packet switching, what is the total end-to-end delay to send queuing, propagation delay, and processing delay.) L/R1 + L/R2	host and a receiving host. The nd between the switch and the switch uses store-and-forward a packet of length L? (Ignore

Student Name: *	
Kalash Jain	
✓ 10.	1/1
The status code '400' in the HTTP response message indicates?	
The requested document does not exist on this server.	
The requested HTTP protocol version is not supported by the server.	
This is a generic error code indicating that the request could not be unby the server.	derstood 🗸
Requested object has been permanently moved	
SID: * 19103096	
✓ 3.	1/1
Suppose users share a 2 Mbps link. Also suppose each user transmits continuous	sly at 1 Mbps
when transmitting, but each user transmits only 20 percent of the time. When circ	cuit switching
is used, how many users can be supported?	
O only 1	
2	✓
O 4	
Any Number of users are possible	

× 22.	0/1
In the state, the client TCP has closed its connserver.	nection to the
CLOSED	
FIN_WAIT_1	
FIN_WAIT_2	×
○ TIME_WAIT	
✓ 23.	1/1
The first 14 bytes in DNS query message is the header section	1.
True	
False	✓
✓ 15.	1/1
In the TCP segment structure, Setting the bit indicates to data to the upper layer immediately.	that the receiver should pass the
PSH	✓
RST	
SYN	
FIN	

× 7.	0/1
Suppose two hosts, A and B, are separated by 20,000 kilometers and are co- link of transmission rate R. Suppose the propagation speed over the link is 2. For what value of R is the width of a bit as long as the length of the link?	
2.5 Kbps	
12.5 Kbps	×
12.5 bps	
2.5 bps	
√ 5.	1/1
What is the transmission range of dial-up modems?	
O Upto 24 Mbps	
Upto 42.8 Mbps	
Upto 56 Kbps	✓
Upto 30.7 Kbps	

✓ 17.	1/1
Read the following statements.	
i) HTTP is said to send its control information out-band	
ii) HTTP is said to send its control information in-band	
iii) FTP is said to send its control information out-of-band	
iv) FTP is said to send its control information in-band	
Which of the following options are correct?	
i) and iii)	
ii) and iv)	
i) and iv)	
ii) and iii)	~
✓ 1.	1/1
Choose the correct options for the following statements	
i. HFC transmission is shared among the users.	
ii. Collisions are possible in the HFC downstream channel.	
False, False	
True, False	~
False, True	
True, True	



✓ 19.	1/1
If a TCP segment carries data along with an acknowledgement, this is called	
Backpacking	
Piggybacking	✓
Piggypacking	
None of the above	
✓ 13.	1/1
TCP socket is identified by:	
i. source IP address.	
ii. source port number.	
iii. destination IP address.	
iv. destination port number.	
Choose the correct option.	
i and ii only.	
iii and iv only.	
i, ii, iii and iv.	✓
i and iv only.	

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